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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/800,470	03/15/2004	Xu Zhu	DB001092-001	DB001092-001 - 3185	
24122	7590 05/04/2005		EXAMINER		
THORP REED & ARMSTRONG, LLP ONE OXFORD CENTRE 301 GRANT STREET, 14TH FLOOR			ANYA, IGWE U		
			ART UNIT	PAPER NUMBER	
PITTSBURGH, PA 15219-1425		2891			

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				An	
		Application No.	Applicant(s)		
Office Action Summary		10/800,470	ZHU ET AL.		
		Examiner	Art Unit		
		Igwe U. Anya	2825		
Period f	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the d	correspondence addres	ss	
THE - Exte afte - If th - If NO - Fail Any	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this commu	unication.	
Status					
1)🖂	Responsive to communication(s) filed on 15 M	<u>arch 2004</u> .			
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.			
3)□	Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the me	erits is	
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposit	tion of Claims				
4)🖂	Claim(s) 1-12 is/are pending in the application.				
	4a) Of the above claim(s) is/are withdraw	vn from consideration.			
5)[Claim(s) is/are allowed.				
6)🖂	☑ Claim(s) <u>1-4 and 7-12</u> is/are rejected.				
7)🖂	☑ Claim(s) <u>5 and 6</u> is/are objected to.				
8)□	Claim(s) are subject to restriction and/or	r election requirement.			
Applicat	tion Papers				
9)[The specification is objected to by the Examine	r.			
10)⊠	The drawing(s) filed on 15 March 2004 is/are: a	a)⊠ accepted or b)□ objected t	o by the Examiner.		
	Applicant may not request that any objection to the				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-1	152.	
Priority	under 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents	s have been received.			
	2. Certified copies of the priority documents	s have been received in Applicati	ion No		
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stag	ge	
	application from the International Bureau				
* (See the attached detailed Office action for a list	of the certified copies not receive	∌d.		
•	<i>u</i>				
Attachmer	nt(s) ce of References Cited (PTO-892)	Λ\	(DTO 442)		
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	4) L Interview Summary Paper No(s)/Mail D			
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F	Patent Application (PTO-152	2)	
	er No(s)/Mail Date <u>6/21/04</u> .	6)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 4, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Silverbrook. (US Patent 6071750).
- 3. Silverbrook teaches a process, comprising:

performing certain process steps from the top side of a substrate carrying a plurality of devices, at least certain of the devices having a micro-machined mesh (figs. 4-10);

attaching a carrier wafer to the top of the substrate, and reducing the thickness of the substrate (fig. 11, 12);

continuing the process of fabricating the plurality of devices from the backside of the substrate (fig. 13);

wherein said performing includes forming and patterning a layer of resist (fig. 6); wherein said performing includes forming a plurality of meshes (fig. 9); wherein said continuing includes forming vent holes (fig. 13); and wherein the device is a MEMS device (col. 4 lines 1 – 11).

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the

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unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 7 – 10, 12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 12, 28 of copending Application No. 10/701,860. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

claim 12 of the co-pending application recites the limitations of claims 7 –12 of the instant application; and

claim 28 of co-pending application recites the limitations of claim 12 of instant application, except for the substrate carrying a plurality of devices (structural limitation in a method claim must affect the method in a manipulative sense to be given patentable weight (Ex parte Pfeiffer, 1962 C.D. 408, 1961).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Igwe U. Anya whose telephone number is (571) 272-1887. The examiner can normally be reached on M - F 8:30am - 5:00pm.

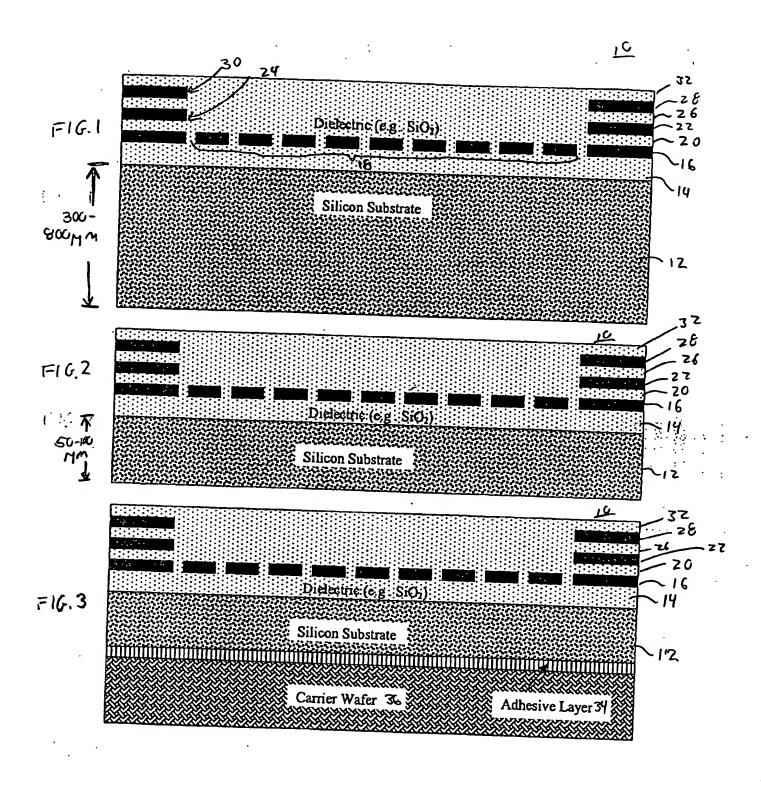
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

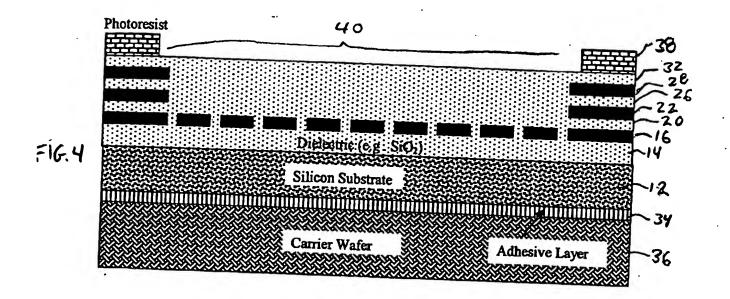
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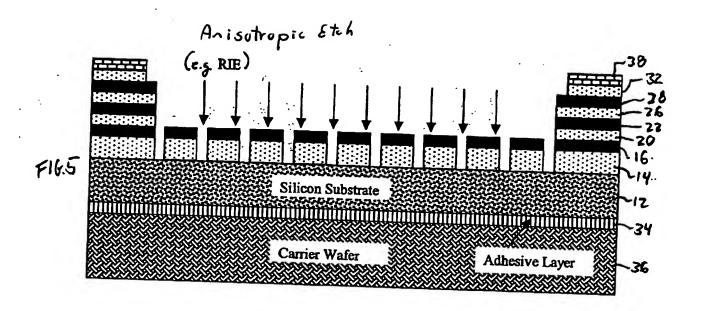
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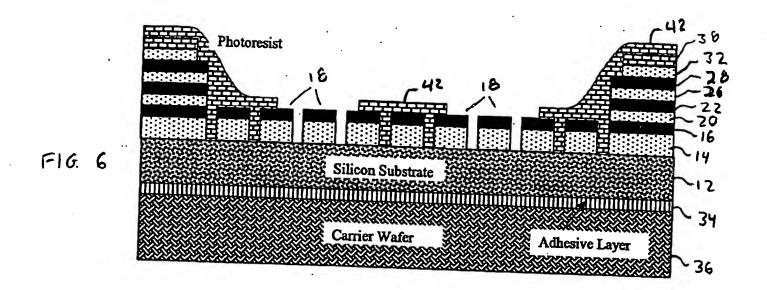
April 16, 2005

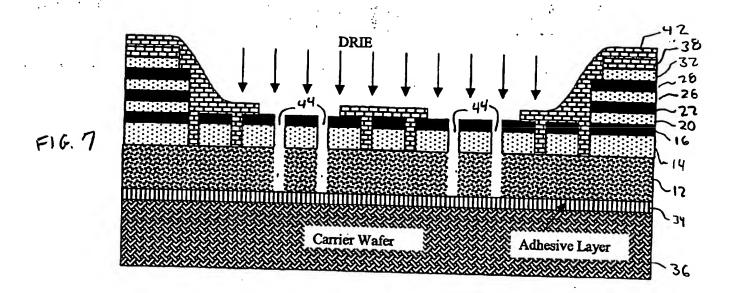


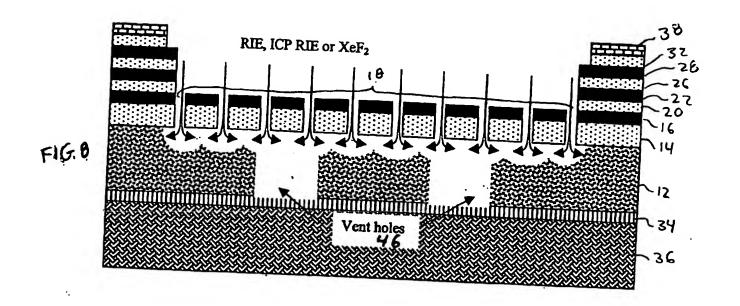
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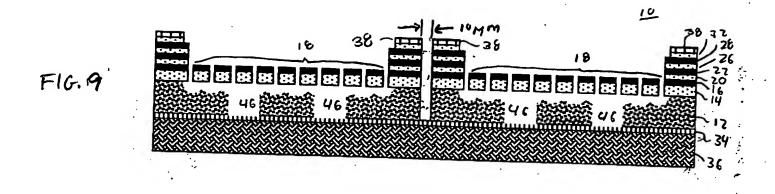


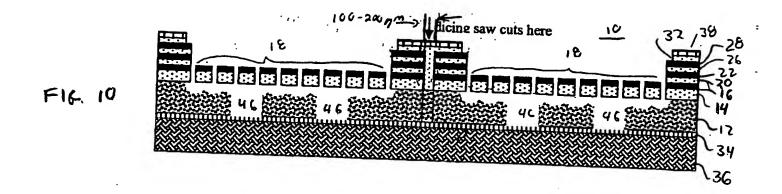


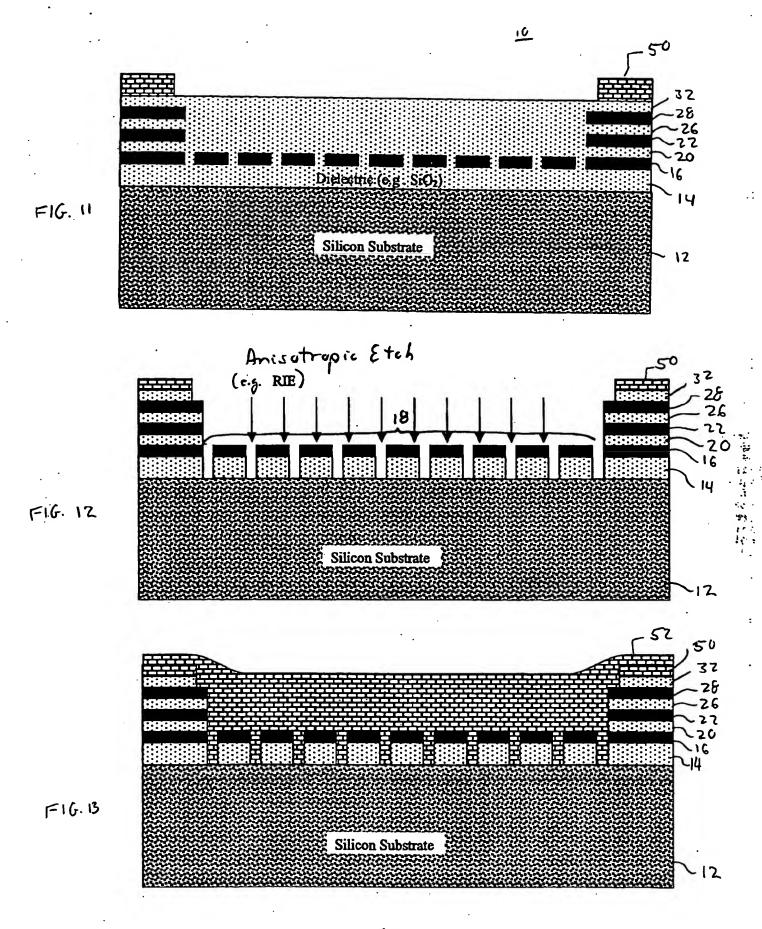


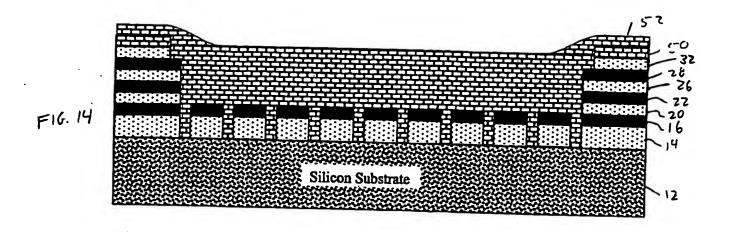


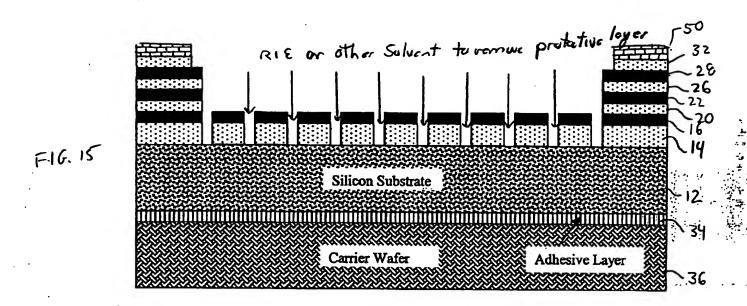


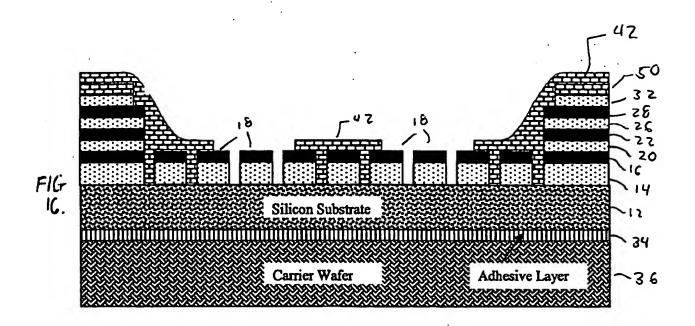


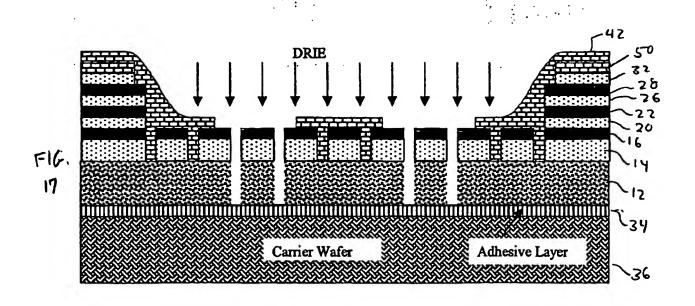


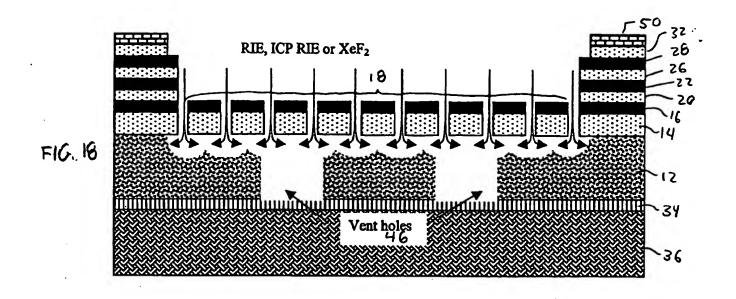


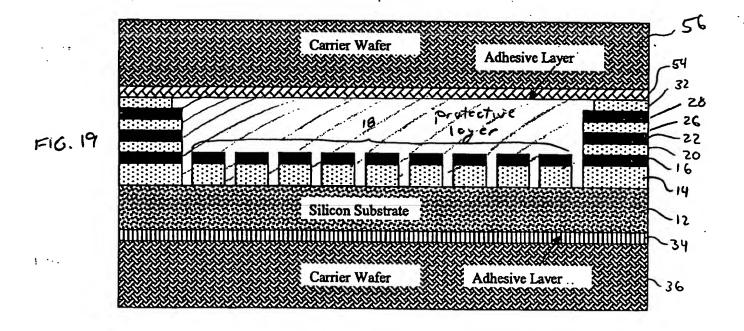


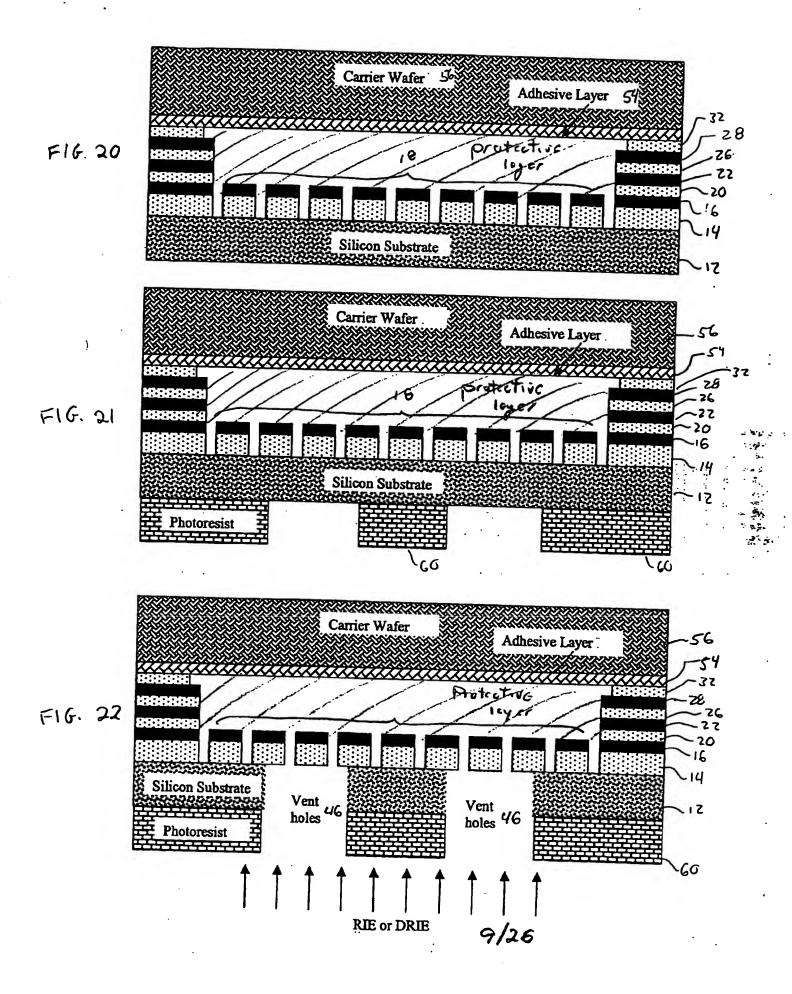


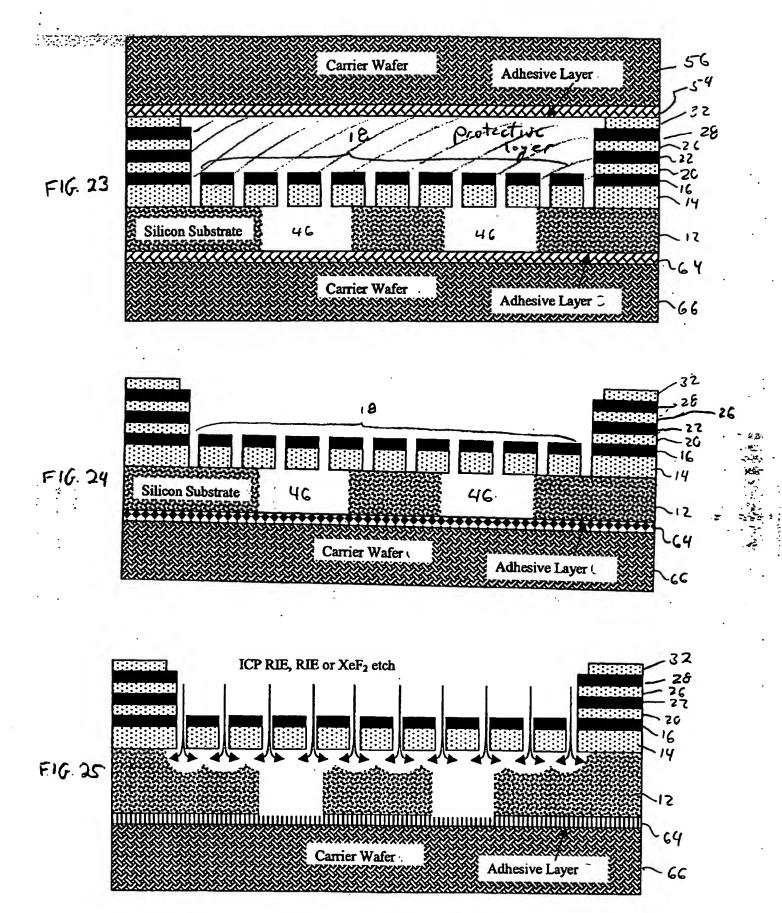


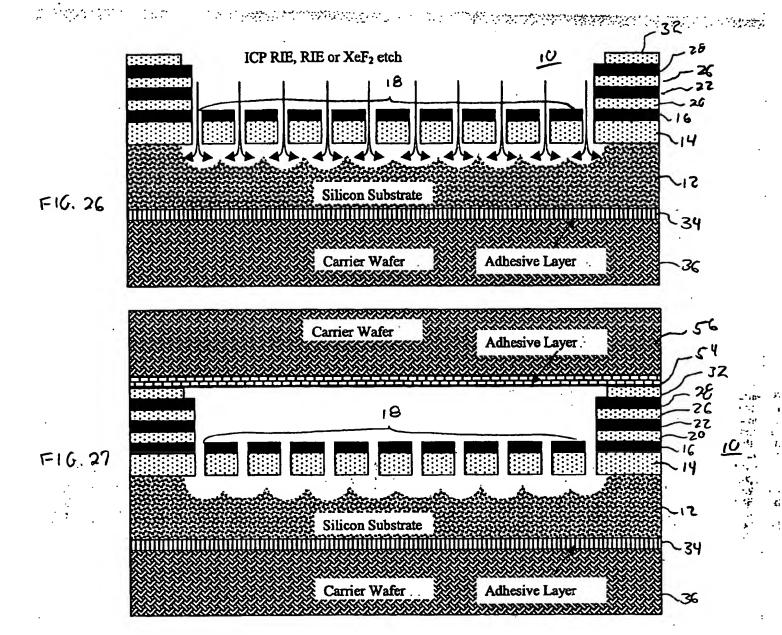


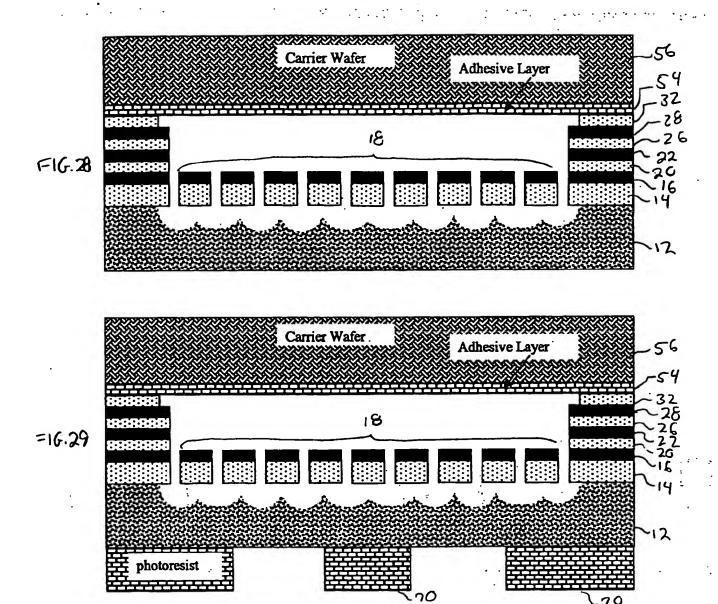


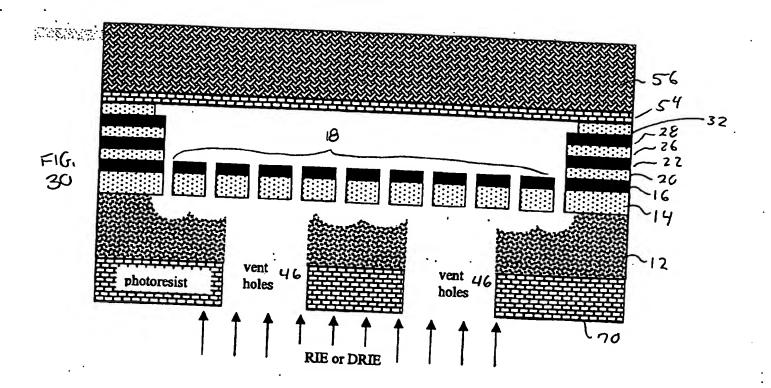


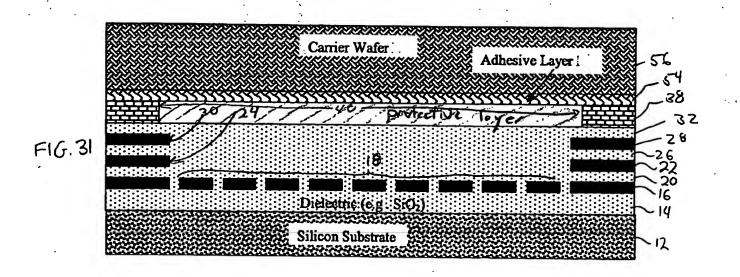


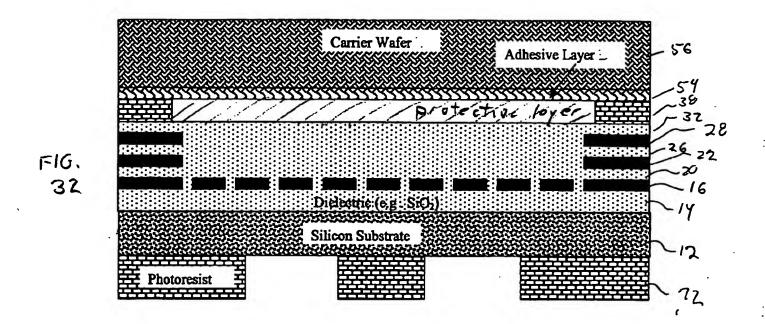


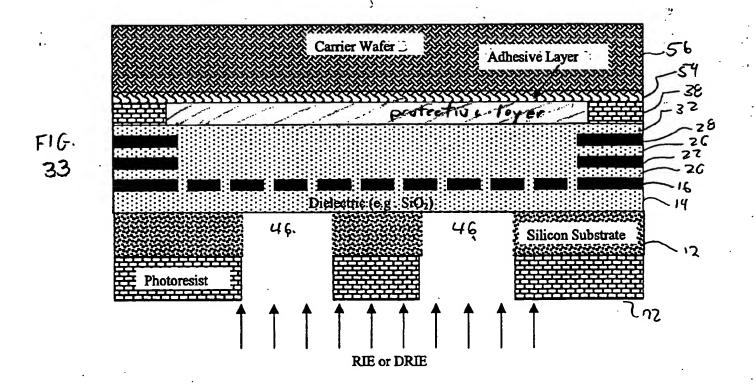


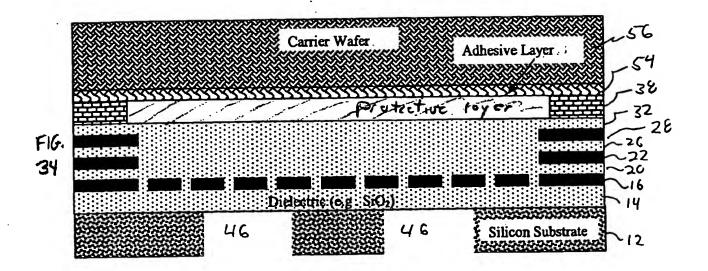


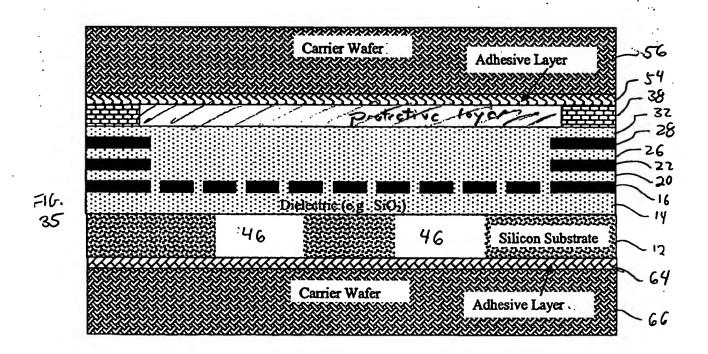


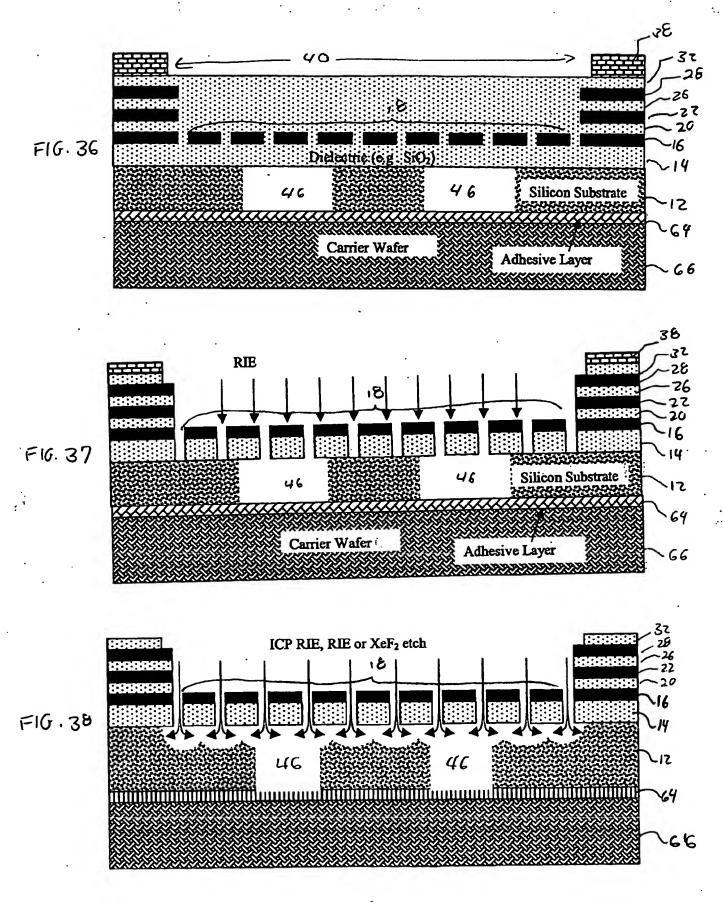


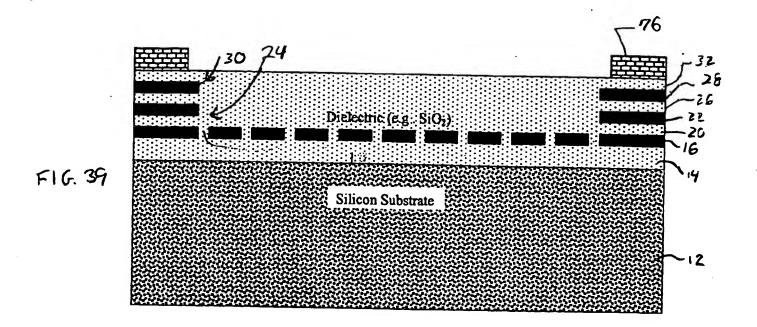


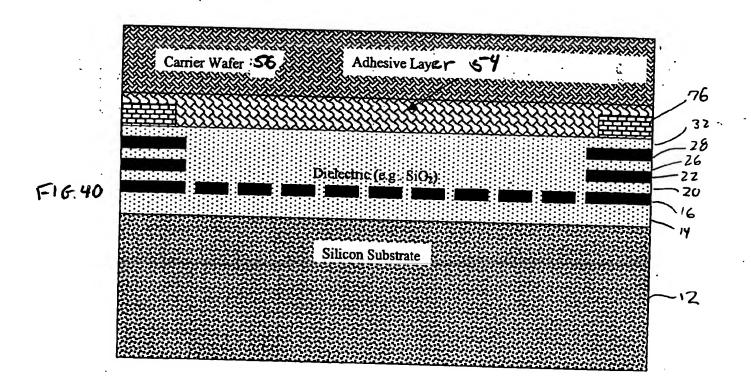


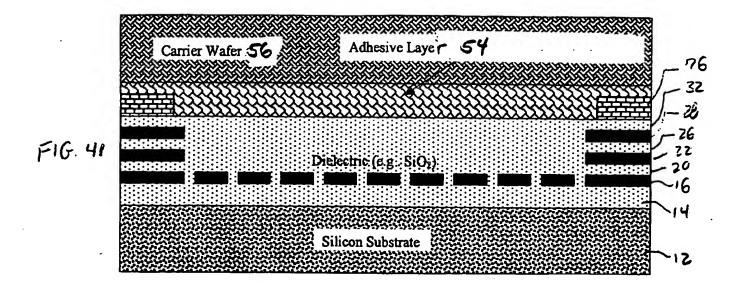


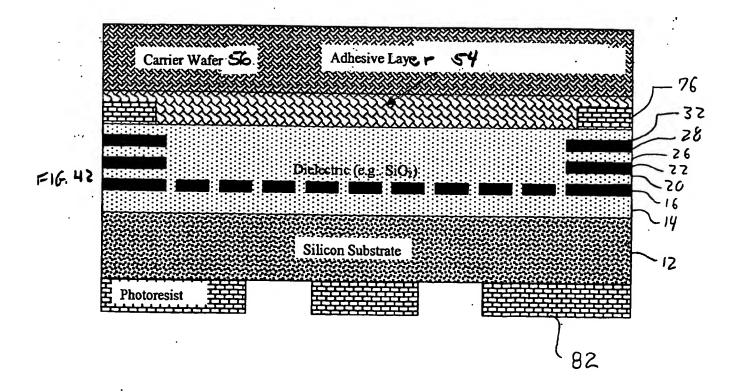


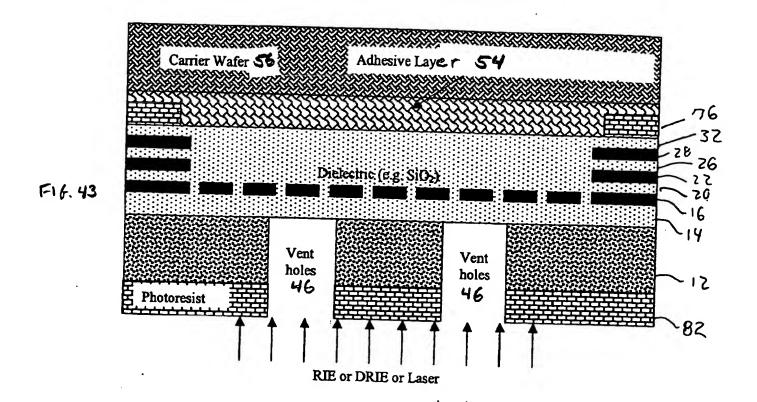


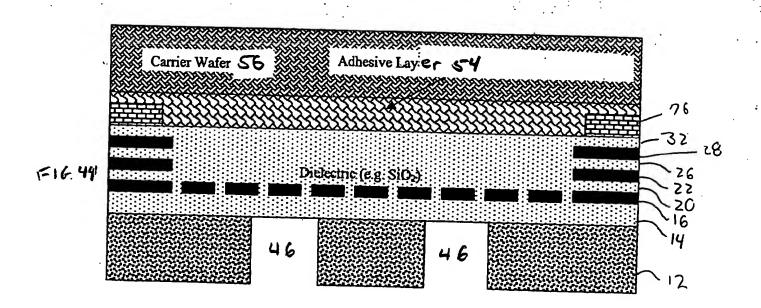


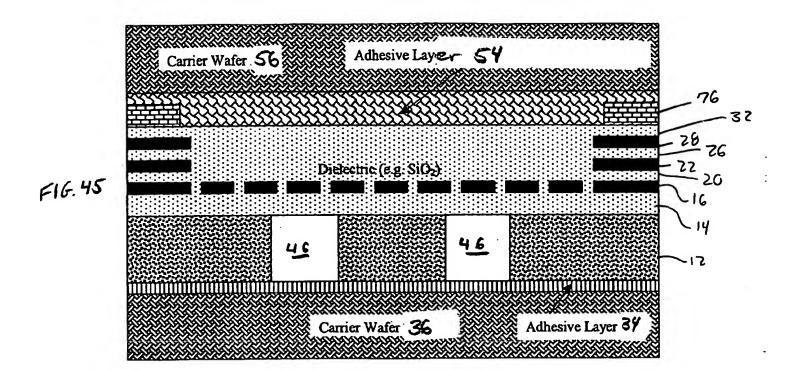


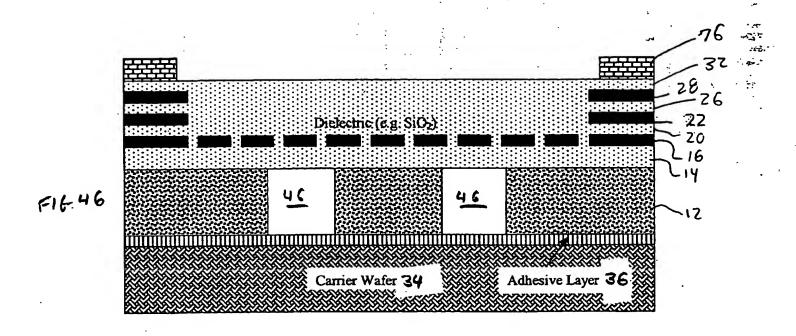


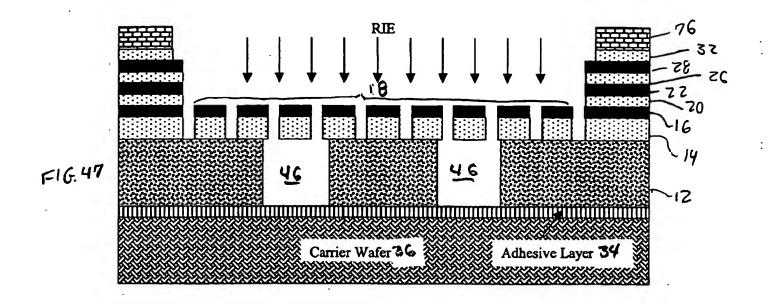


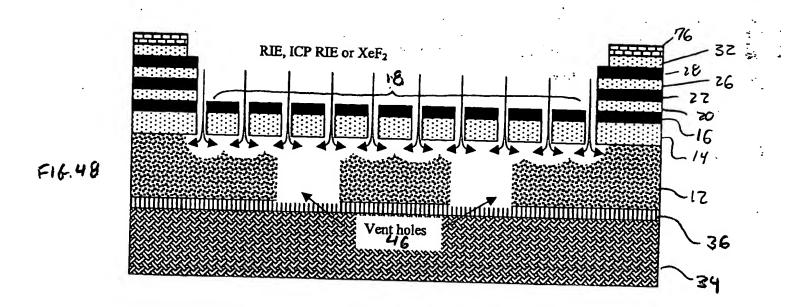


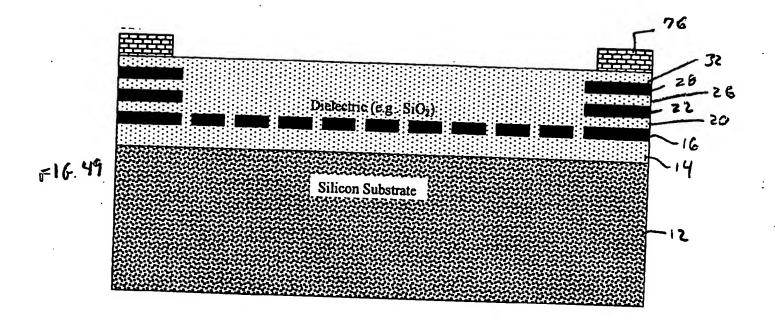


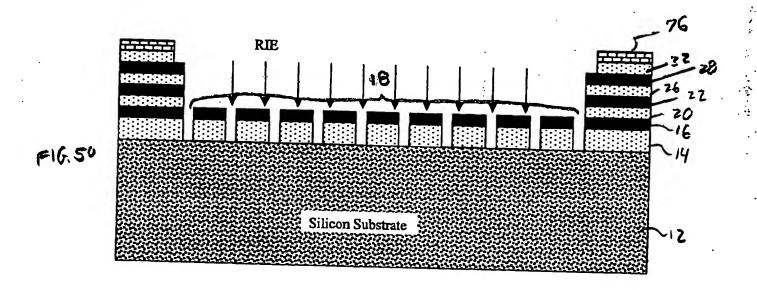


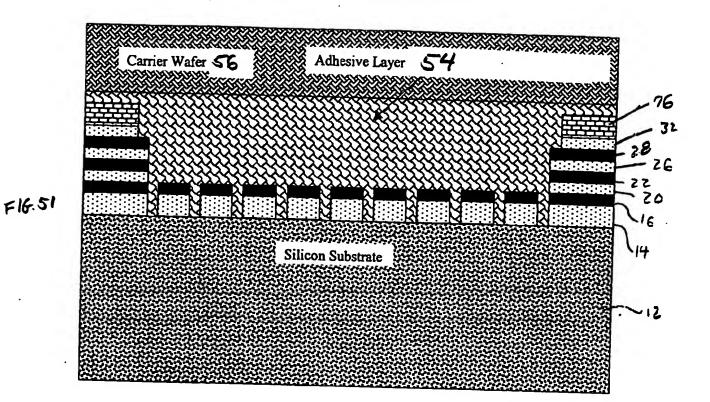


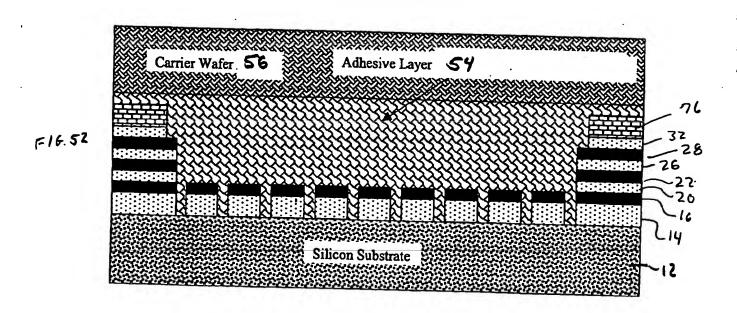


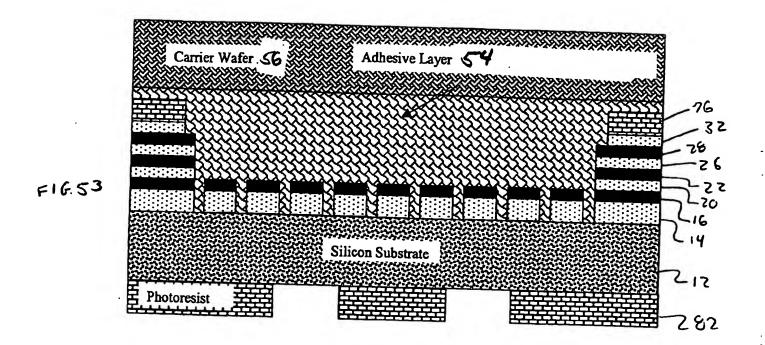


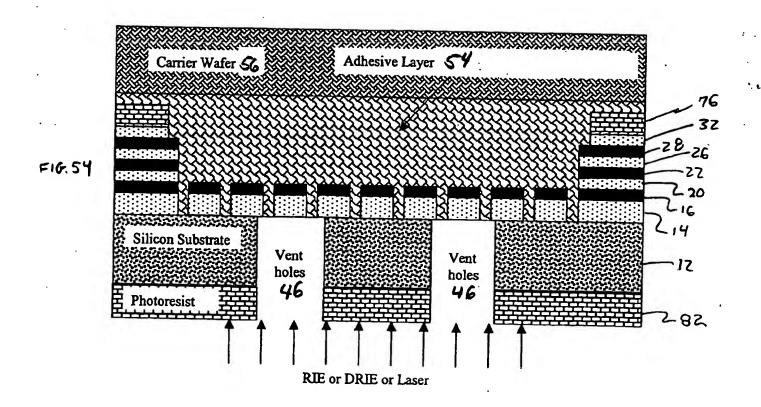


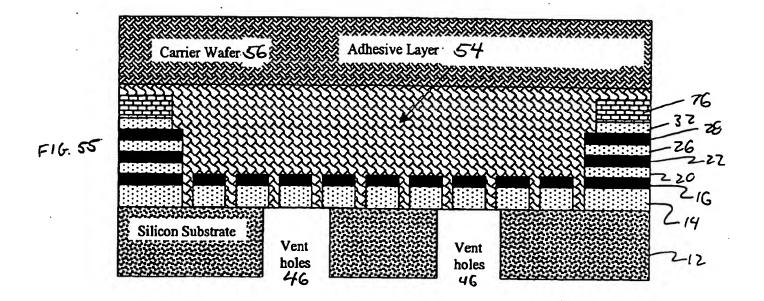


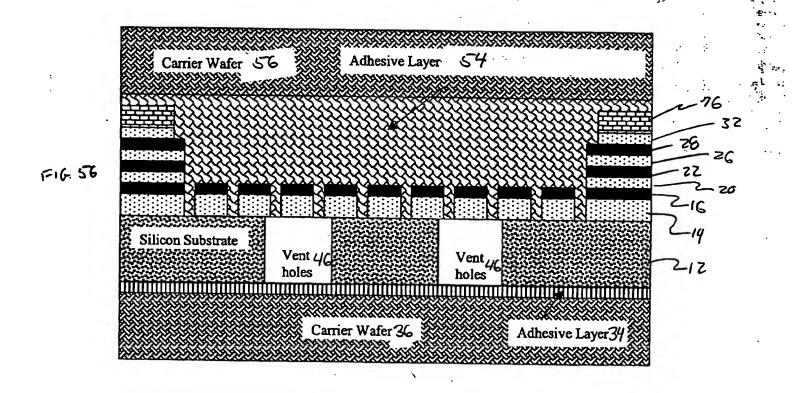


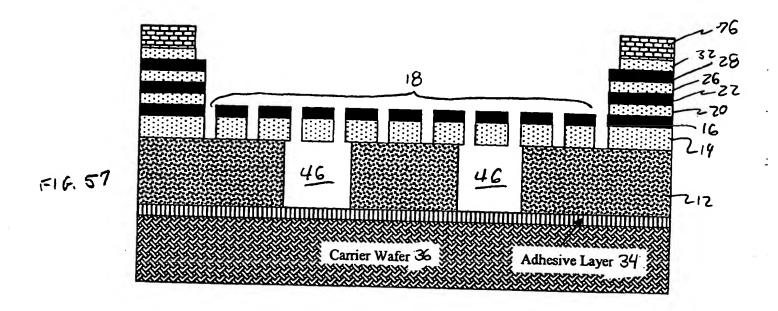


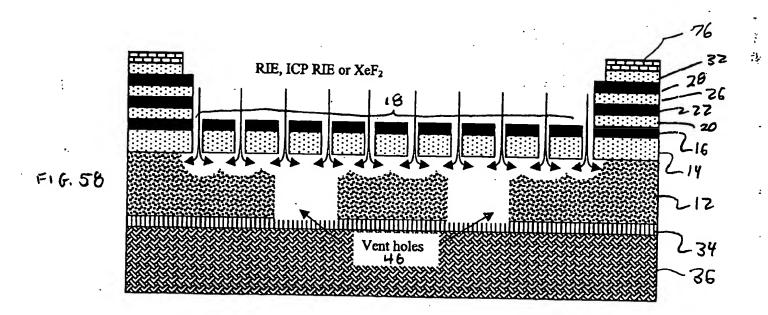












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